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REVOLVING-FRAME STRUCTURE OF CONSTRUCTION MACHINERY

Technical Field

[0001] This invention relates to a swing frame structure for construction machinery such as a hydraulic excavator. The swing frame structure is to be arranged in a swing upperstructure of the construction machinery.

Background Art

[0002] FIG. 12 is a perspective view of a hydraulic excavator shown as an example of construction machinery. In this hydraulic excavator, a swing upperstructure 21 is arranged on a travel base 20, and this swing upperstructure 21 is provided with a swing frame 22 to which the present invention is applied.

[0003] As a conventional structure of the swing frame 22, one illustrated in FIGS. 13 and 14 has been proposed, for example. FIG. 13 is a plan view, while FIG. 14 is a side view. The conventional swing frame structure shown in these FIGS. 13 and 14 is provided at a front position thereof with a center frame 23 and at a rear position with a tail frame 24. The center frame 23 is provided with a bottom plate 25, a pair of webs, in other words, side plates